

Status of independent power producers

653. SHRI SITARAM YECHURY: Will the Minister of POWER be pleased to state:

- (a) the details of Independent Power Producers (IPPs) sanctioned and awarded since 1992, State-wise and project-wise;
- (b) the details of IPPs which are yet to achieve the financial closures; and
- (c) the details of IPPs in generation of power which are failing to meet their given commitment and the reason therefor?

THE MINISTER OF POWER (SHRI SUSHILKUMAR SHINDE): (a) to (c) Information is being collected and will be laid on the Table of the House.

Utilization of hydro power potential

654. SHRI RAJKUMAR DHOOT: Will the Minister of POWER be pleased to state:

- (a) whether it is a fact that the country is utilizing only 21.5 per cent of the available potential of hydro energy in the country;
- (b) if so, the details thereof and the reasons therefor;
- (c) the demand projectbns of hydro energy for next five years;
- (d) whether Government have worked out any expansion of existing power generation of hydro power plants and construction of new power projects; and
- (e) if so, the details thereof alongwith the capacities and the likely date of commencement of production at optimum level?

THE MINISTER OF POWER (SHRI SUSHILKUMAR SHINDE): (a) As per re-assessment studies carried out by Central Electricity Authority (CEA) the exploitable hydro power potential of the country is about 1,48,700 MW. 20.3% of the hydro potential has been developed and 9.2% is under development.

(b) The details of hydro potential developed so far are given in Statement-I (*See below*).

The development of hydro potential has been slow mainly due to the following reasons:

- (i) Difficult/in-accessible sites.
- (ii) Environment, Forest and Wildlife Clearance related problems.
- (iii) Land Acquisition and Rehabilitation problems.
- (iv) Law and order problems.
- (v) Paucity of funds and longer gestation period.
- (vi) Adverse geological conditions.
- (vii) Inter-state aspects.
- (viii) Higher initial construction costs.
- (ix) Apportionment of project cost among various beneficiaries.
- (x) Excessive burden on account of Net Present Value (NPV) etc. with respect to forest lands.

(c) As per the studies carried out by the Central Electricity Authority, the total energy requirement from all sources including hydropower would be about 1038 billion units by the end of financial year 2011-12.

(d) and (e) To meet the demand of projected energy requirement, capacity addition of about 76,000 MW would be required in next five years i.e. by the end of Eleventh Plan. Of this about 16,250 MW is tentatively proposed to be added through hydro projects. The details of hydro electric schemes tentatively identified for benefits during Eleventh Plan alongwith capacity and the likely date of commissioning are given in Statement-II (See below).

Besides, it is tentatively planned to complete renovation, modernization, uprating and life extension of some of the existing hydro power plants which on completion would accrue additional benefits in the installed capacity of about 4,300 MW during the Eleventh Plan.

Statement-I

Status of Hydro Electric Potential Development

(In terms of Installed capacity)

As on 23.02.2007

Region/State	Identified Capacity as per re-assessment	Capacity Developed		Capacity under construction		Capacity Developed+Under Development		Capacity yet to be developed	
		study (MW)	(MW)	%	(MW)	(%)	(MW)	(%)	(MW)
1	2	3	4	5	6	7	8	9	10
NORTHERN									
Jammu & Kashmir	14146	1474	10.42	1289	9.11	2763	19.53	11383	80.47
Himachal Pradesh	18820	6073	32.37	4361	23.17	10434	55.44	8386	44.56
Punjab	971	1298	1.00	0	0.00	1298	133.64	0	0.00
Haryana	64	62	97.50	0	0.00	62	97.50	2	2.50
Rajasthan	496	430	86.69	0	0.00	430	86.69	66	13.31
Uttaranchal	18175	2502	13.77	2304	12.68	4806	26.44	13369	73.56
Uttar Pradesh	723	507	70.07	0	0.00	507	70.07	216	29.93
SUB TOTAL (NR)	53395	12346	23.12	7954	14.90	20300	38.02	33095	61.98

1	2	3	4	5	6	7	8	9	10
WESTERN									
Madhya Pradesh	2243	1919	85.53	920	41.02	2839	1.00	0	0.00
Chhattisgarh	2242	130	5.80	0	0.00	130	5.80	2112	94.20
Gujarat	619	555	89.66	0	0.00	555	89.66	64	10.34
Maharashtra	3769	2651	70.34	0	0.00	2651	70.34	1118	29.66
Goa	55	0	0.00	0	0.00	0	0.00	55100.00	
SUB TOTAL (WR)	8928	5255	58.86	920	10.30	6175	69.16	2753	30.84
SOUTHERN									
Andhra Pradesh	4424	2018	45.60	284	6.42	2302	52.02	2123	47.98
Karnataka	6602	3415	51.73	230	3.48	3645	55.22	2957	44.78
Kerala	3514	1839	52.32	263	7.48	2102	59.80	1413	40.20
Tamil Nadu	1918	1757	91.63	60	3.13	1817	94.76	101	5.24
SUB TOTAL (SR)	16458	9029	54.86	837	5.09	9866	59.95	6592	40.05
EASTERN									
Jharkhand	753	237	31.50	0	0.00	237	31.50	516	68.50
Bihar	70	45	64.14	0	0.00	45	64.14	25	35.86
Orissa	2999	1862	62.07	210	7.00	2072	69.07	928	30.93
West Bengal	2841	157	5.51	292	10.28	449	15.79	2393	84.21

1	2	3	4	5	6	7	8	9	10
Sikkim	4286	84	1.96	609	14.21	693	16.17	3593	83.83
SUB TOTAL (ER)	10949	2389	21.82	1111	10.15	3500	31.97	7449	68.03
NORTH EASTERN									
Meghalaya	2394	185	7.74	84	3.51	269	11.24	2125	88.76
Tripura	15	15	100.00	0	0.00	15	100.00	0	0.00
Manipur	1784	105	5.89	0	0.00	105	5.89	1679	94.11
Assam	680	325	47.79	50	7.35	375	55.15	305	44.85
Nagaland	1574	99	6.29	0	0.00	99	6.29	1475	93.71
Arunachal Pradesh	50328	416	0.83	2600	5.17	3016	5.99	47313	94.01
Mizoram	2196	0	0.00	60	2.73	60	2.73	2136	97.27
SUB TOTAL (NER)	58971	1145	1.94	2794	4.74	3939	6.68	55032	93.32
ALL INDIA	148701	30164	20.28	13616	9.16	43780	29.44	104921	70.56

In addition to above 3660 MW PSS is under operation and another 2150 MW is-under construction.

Note 1 The above Table does not include schemes below 3 MW upto March'2003 and thereafter upto 25MW

Statement-II

*Hydroelectric schemes tentatively identified for benefits during
Eleventh plan*

SI. No.	Name of Scheme	State	Installed Capacity (MW)	Benefits During Eleventh Plan	Expected Year of Commissioning
1	2	3	4	5	6
1	Parbati-II	Himachal Pradesh	800	400	2008-09
1	Parbati-II	Himachal Pradesh	800	400	2009-10
2	Parbati-III	Himachal Pradesh	520	520	2010-11
3	Chamera-III	Himachal Pradesh	231	231	2010-11
4	Rampur	Himachal Pradesh	412	412	2011-12
5	Kol Dam	Himachal Pradesh	800	600	2008-09
5	Kol Dam	Himachal Pradesh	800	200	2009-10
6	Uhl-III	Himachal Pradesh	100	100	2009-10
7	Sawara Kuddu	Himachal Pradesh	110	110	2010-11
8	Allain Duhangan	Himachal Pradesh	192	192	2008-09
9	Karcham Wangtoo	Himachal Pradesh	1000	1000	2011-12
10	Budhil	Himachal Pradesh	70	70	2008-09
11	Sorang	Himachal Pradesh	100	100	2011-12
12	Malana-II	Himachal Pradesh	100	100	2008-09
13	Tidong-I	Himachal Pradesh	100	100	2011-12
14	Tangnu Romai	Himachal Pradesh	50	50	2010-11
15	Lambadug	Himachal Pradesh	25	25	2010-11
16	URI-II	Jammu & Kashmir	240	240	2009-10
17	Sewa-II	Jammu & Kashmir	120	120	2008-09
18	Baglihar-I	Jammu & Kashmir	450	450	2007-08

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1	2	3	4	5	6
19	Lohari Nagpala	Uttarakhand	600	600	2011-12
20	Tapovan Vishnugad	Uttarakhand	520	520	2011-12
21	Tehri PSS	Uttarakhand	1000	500	2010-11
21	Tehri PSS	Uttarakhand	1000	500	2011-12
22	Koteshwar	Uttarakhand	400	400	2008-09
23	Srinagar	Uttarakhand	330	330	2011-12
24	Vyasi	Uttarakhand	120	120	2010-11
25	ManeriBhali	Uttarakhand	304	304	2007-08
26	UBDC-III	Punjab	75	75	2009-10
27	Maheshwar	Madhya Pradesh	400	400	2010-11
28	Omkareshwar	Madhya Pradesh	520	520	2007-08
29	Ghatghat	Maharashtra	250	250	2007-08
30	Nagarjuna Sagar TR	Andhra Pradesh	50	50	2009-10
31	Jurala Priyadarshni	Andhra Pradesh	234	234	2007-09
32	Lower Jurala	Andhra Pradesh	240	240	2011-12
33	Kuttiyadi Extension	Kerala	100	100	200849
34	Adirapally	Kerala	163	163	2010-11
35	Mankulam	Kerala	40	40	2010-11
36	Pallivasal	Kerala	60	60	2010-11
37	Thottiar	Kerala	40	40	2010-11
38	Varahi Extn.	Karnataka	230	230	2008-09
39	Bhawani Kattalai Barrag	Tamil Nadu	60	60	2009-10

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1	2	3	4	5	6
40	Teesta Low Dam-III	West Bengal	132	132	2008-09
41	Teesta Low Dam-IV	West Bengal	160	160	2009-10
42	Purlia PSS	West Bengal	900	675	2007-08
43	Balimela ST-II	Orissa	150	75	2007-08
44	Teesta III	Sikkim	1200	600	2011-12
45	Teesta V	Sikkim	510	510	2007-08
46	Chujachen	Sikkim	99	99	2009-10
47	Bhasmey	Sikkim	51	51	2010-11
48	Sada Mander	Sikkim	71	71	2009-10
49	Subansiri Lower	Arunachal Pradesh	2000	2000	2010-11
50	Kameng	Arunachal Pradesh	600	600	2009-10
51	MyntduST-1	Meghalaya	84	84	2008-09
52	New Umtru	Meghalaya	40	40	2010-11
TOTAL:			16253.0		

Ultra mega power project in Maharashtra

655. SHRIMATI SUPRIYA SULE: Will the Minister of POWER be pleased to state:

- (a) whether the Centre's move to develop a 4000 MW ultra mega power project in coastal Sindhudurg district of Maharashtra has been finalized;
- (b) if so, whether State Government has conveyed its approval and has given its final agreement for the project; and
- (c) if so, when a final decision in this regard is likely to be taken?

THE MINISTER OF POWER (SHRI SUSHILKUMAR SHINDE): (a) to
(c) A site at Girye in Sindhudurg district has been identified for setting up